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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/707,111

11/21/2003

Chih-Feng Sung

10216-US-PA

1110

31561

7590

04/04/2006

JIANQ CHYUN INTELLECTUAL PROPERTY OFFICE

7 FLOOR-1, NO. 100

ROOSEVELT ROAD, SECTION 2

TAIPEI, 100

TAIWAN

EXAMINER

CHEN, JACK S J

ART UNIT

PAPER NUMBER

2813

DATE MAILED: 04/04/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.		Applicant(s)	
	10/707,111		SUNG, CHIH-FENG	
	Examiner		Art Unit	
	Jack Chen		2813	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 March 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 6-10 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 6-10 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 3/13/06 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on March 21, 2006 has been entered.

Specification

2. The amendment filed March 13, 2006 is objected to under 35 U.S.C. 132(a) because it introduces new matter into the disclosure. 35 U.S.C. 132(a) states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows: the newly added drawings (figures 3-6) are not supported by the original disclosure; the added materials in paragraphs [0004], [0005], [0007], [0014], [0015], [0016] and [0020] are not supported by the original disclosure; Re claim 6, the phrase “**a plurality of scan lines and a plurality of data lines electrically connected to the pixel structures are disposed on the substrate in the emitting region**” and “**the cap covers the emitting region of the substrate and the width of the power line in the non-emitting region**” are not supported by the original disclosure.

Applicant is required to cancel the new matter in the reply to this Office Action.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claim 6 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Re claim 6, the phrase “**a plurality of scan lines and a plurality of data lines electrically connected to the pixel structures are disposed on the substrate in the emitting region**” and “**the cap covers the emitting region of the substrate and the width of the power line in the non-emitting region**” are not supported by the original disclosure.

The remaining claims 7-10 are rejected for depending from the above rejected claim.

For the purpose of patentability, these claims will be interpreted as best understood.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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Claims 6-9 are rejected under 35 U.S.C. 102(e) as being anticipated by Lih et al., U.S./6,806,638.

Lih et al discloses an active matrix organic light emitting diode (AMOLED) display, comprising: a substrate 100 (figs. 3-4), wherein the substrate comprises an emitting region 120 and a non-emitting region 122 (fig. 3, i.e., outside the dash-box 120), and a plurality of pixel structures 107 (fig. 3), a plurality of scan lines and a plurality of data lines electrically (col. 3, lines 39-46) connected to the pixel structures are disposed on the substrate in the emitting region (figs. 3-4); a power line (fig. 4, i.e., 108), wherein the power line is deposited on the substrate in the non-emitting region (figs. 3-4), and is electrically connected with the pixel structures (figs. 3-4); and a cap 200, deposited above the substrate and bonded with the substrate (fig. 4), wherein the cap covers the emitting region of the substrate and the width of the power line (figs. 3-4) in the non-emitting region (figs. 3-4), see figs. 1-4 and cols. 1-6 for more details.

Re claim 7, wherein the cap 200 covers most of the power line 108, and only a small section of the end of the power line is exposed (fig. 4).

Re claim 8, wherein the cap 200 is a metal cap or a glass cap (col. 4, lines 4-11).

Re claim 9, wherein each of the pixel structures is composed of an active matrix device, an anode layer 102, an emitting layer 104, and a cathode layer 106.

Claims 6 and 9 are rejected under 35 U.S.C. 102(e) as being anticipated by Lih et al., U.S./6,806,638.

Lih et al discloses an active matrix organic light emitting diode (AMOLED) display, comprising: a substrate 100 (figs. 1-2), wherein the substrate comprises an emitting region 120

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and a non-emitting region 122 (fig. 1, i.e., outside the dash-box 120), and a plurality of pixel structures 107 (fig. 1), a plurality of scan lines and a plurality of data lines electrically (col. 1, lines 57-65) connected to the pixel structures are disposed on the substrate in the emitting region (figs. 1-2); a power line (fig. 1, i.e., 110), wherein the power line is deposited on the substrate in the non-emitting region (figs. 1-2), and is electrically connected with the pixel structures (figs. 1-2); and a cap 114, deposited above the substrate and bonded with the substrate (fig. 2), wherein the cap covers the emitting region of the substrate and the width of the power line (fig 1) in the non-emitting region (figs. 1-2), see figs. 1-4 and cols. 1-6 for more details.

Re claim 9, wherein each of the pixel structures is composed of an active matrix device, an anode layer 102, an emitting layer 104, and a cathode layer 106.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lih et al., U.S./6,806,638.

Lih et al. disclosed above, and in particular col. 3, lines 45-48 shows using conductive material for the power line (fan-out conductive line). Although the exact recitations "metal material" of instant claim 10 is not explicitly stated by Lih et al., but this is Prima Facie obvious over Lih et al. since metal material is part of the conductive material. And the selection of a

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known material based on its suitability for its intended use supported a prima facie obviousness determination in *Sinclair & Carroll Co., Inc. v. Interchemical Corp.*, 325 U.S. 327, 65 USPQ 297 (1945). "Reading a list and selecting a known compound to meet known requirements is no more ingenious than selecting the last piece to put in the last opening in a jig - saw puzzle." 65 USPQ at 301.).

Therefore, the subject matter as a whole would have been obvious to one having ordinary skill in the art at the time the invention was made to select any suitable material (i.e., metal) for the conductive line (in order to lower the resistance).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jack Chen whose telephone number is (571)272-1689. The examiner can normally be reached on Monday-Friday (9:00am-6:30pm) alternate Monday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl W. Whitehead can be reached on (571)272-1702. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Jack Chen
Primary Examiner
Art Unit 2813

March 30, 2006